

ABSTRACT

A fastener for securing particle or bulge producing materials, a method of manufacturing the fastener, and a method of using the fastener are provided. The fastener has a thread on a shank, and a knurled portion disposed between the thread and a head. The fastener also may have at least one flute in the knurled portion, and may have at least one rib on the lower surface of the head. In use, the method is accomplished by inserting the fastener, by rotation, into a particle or bulge producing material, and producing particles or a bulge. Then, the method provides for transporting at least some of the particles from the particle producing material via the at least one flute, and securing the particle producing material to a base material. In a bulge producing material, the method provides for displacing the bulge into the material.